

## Recombinant Human PHPT1 Protein, His-tagged

**Cat. No.** PHPT1-753H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human PHPT1(Met1~Tyr125) fused with His tag at N-terminal was expressed in E. coli.                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                          |
| <b>ProteinLength</b>    | Met1~Tyr125                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | This gene encodes an enzyme that catalyzes the reversible dephosphorylation of histidine residues in proteins. It may be involved in the dephosphorylation of G-beta and ATP citrate lyase and in negatively regulating CD4 T lymphocytes by dephosphorylation and inhibition of KCa3.1 channels. Alternative splicing results in multiple transcript variants. |
| <b>Form</b>             | PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                                         |
| <b>Molecular Mass</b>   | 15.4kDa                                                                                                                                                                                                                                                                                                                                                         |
| <b>Endotoxin</b>        | <1.0EU per 1g (determined by the LAL method)                                                                                                                                                                                                                                                                                                                    |
| <b>Purity</b>           | > 95%                                                                                                                                                                                                                                                                                                                                                           |
| <b>Applications</b>     | Positive Control; Immunogen; SDS-PAGE; WB.<br>If bio-activity of the protein is needed, please check active protein.                                                                                                                                                                                                                                            |

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|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>      | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.                                                                                                                                                                                                                 |
| <b>Reconstitution</b> | Reconstitute in PBS or others.                                                                                                                                                                                                                                                                                                               |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                    |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | PHPT1 phosphohistidine phosphatase 1 [ Homo sapiens ]                                                                                                                                                                                                                                              |
| <b>Official Symbol</b> | PHPT1                                                                                                                                                                                                                                                                                              |
| <b>Synonyms</b>        | PHPT1; phosphohistidine phosphatase 1; 14 kDa phosphohistidine phosphatase; sex regulated protein janus a; bA216L13.10; CGI 202; DKFZp564M173; HSPC141; phosphohistidine phosphatase 14kDa; PHP14; 1700008C22Rik; protein janus-A homolog; sex-regulated protein janus-a; CGI-202; RP11-216L13.10; |
| <b>Gene ID</b>         | 29085                                                                                                                                                                                                                                                                                              |
| <b>mRNA Refseq</b>     | NM_001135861                                                                                                                                                                                                                                                                                       |
| <b>Protein Refseq</b>  | NP_001129333                                                                                                                                                                                                                                                                                       |
| <b>MIM</b>             | 610167                                                                                                                                                                                                                                                                                             |
| <b>UniProt ID</b>      | Q9NRX4                                                                                                                                                                                                                                                                                             |

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